



AT-2971 Series

Gigabit Ethernet PCI Server Adapter Cards

AT-2971T

Gigabit Ethernet server adapter for 10/100/1000T

AT-2971SX

Gigabit Ethernet server adapter for 1000SX PCI low profile available upon request

High Performance

A high performance adapters with a 64-bit/66MHz bus, wire speed, and 9kb jumbo frames support, Allied Telesyn's AT-2971 supports the calculation of TCP, UDP, and IP checksums through the hardware platform without time loss by the MAC controller for both transmission and receiving paths—a capability that leads to improvements on overall system performance. In order to reduce the load on the CPU, Allied Telesyn's AT-2971 uses interrupt moderation to group the huge amounts of interrupts caused by small packets transferred at Gigabit speed enabling the handling of several data packets per interrupt.

High Reliability

The AT-2971 Gigabit Ethernet Adapter comes with a variety of reliability features aimed at maintaining the longest-possible connection through link aggregation, redundant switch failover, and PCI hot plug. The on-board sensors and driver functions monitor the health of adapters and their ports enabling pro-active network management.

Comprehensive Software Support

AT-2971 adapter cards feature a set of software programs that assist users with their network setups and configurations. The offline user diagnostics program provides system administrators and engineers with a tool to analyze network adapters and check specific data. The Network Control program for Windows 2K, Windows XP, and Windows Server 2003 enables users to easily control and configure all their AT-2971 adapters.

Virtual Cable Tester™ (VCT) (on AT-2971T only)

The VCT program detects and reports potential cabling issues such as cable opens, cable shorts, or any impedance mismatches in the cable. It can also accurately locate the distance to the cabling fault within a tolerance of one meter, enabling IT staffs to quickly identify failing mechanisms and isolate the source of problems.

Key Features

- Supports jumbo frame up to 9kb
- TCP, UDP & IP checksum generation & check
- Support for all popular operating systems including Sun Solaris
- Advanced power management (ACPI)
- Link aggregation
- Redundant switch failover
- Remote boot (PXE 2.0)
- Parity monitoring on all data paths
- Sensors for temperature & voltage monitoring
- VLAN support
- Dynamic interrupt modulation

Additional Features for AT-2971T

- Wake On LAN (WOL)
- Cable monitoring & auto correct
- Virtual Cable Tester (VCT)

AT-297I Series | Gigabit Ethernet PCI Server Adapter Cards

LED Status Indicators

AT-297IT

10	ON	10Mbit/s link up
	OFF	10Mbit/s link down
100	ON	100Mbit/s link up
	OFF	100Mbit/s link down
1000	ON	1000Mbit/s link up/s
	OFF	1000Mbit/s link down
ACT	ON	Receiving / transmitting
	OFF	Not receiving / not transmitting

AT-297ISX

LINK:	ON	Link up, speed 1000Mbit/s
	OFF	Link down
ACT:	ON	Receiving / transmitting
	OFF	Not receiving / not transmitting

PC Interface

Bus interface PCI 2.1 with extensions in accordance with PCI 2.2

PCI bus 32/64bit, 33/66MHz

PCI hot plug (OS-dependant)

Signaling voltage 3.3V and 5V compatible

Network Connector

Auto-negotiation, full-duplex and half-duplex

AT-297IT 10T, 100T and 1000T RJ-45 connector

AT-297ISX 1000SX Fiber SC connector

Driver Support

Windows 2000, Windows XP, and Windows Server 2003

Linux kernel 2.2.x & 2.4.x

Sun Solaris 7, 8, and 9 on SPARC systems as well as Solaris 7 and 8 on X86 systems

IBM AIX 4.3.3 and AIX 5.1

UTP Interface

Connector Shielded RJ-45 Auto MDI/MDI-X

1000SX Interface

Connector	SC
Fiber Type	Multimode fiber
Output Power	Min -9.5 dBm
	Max -4 dBm
Receive Sensitivity	Min -17 dBm

Power Characteristics

Max. power consumption 14 W

Environmental Specifications

Operating Temp. 10°C to 50°C

Operating Humidity 30% to 85%

Physical Characteristics

Dimensions	17cm x 6.4 cm (6.7" x 2.5")
Weight	320g

Standards & Compliance

IEEE 802.3

IEEE 802.3u

IEEE 802.3z

IEEE 802.3x

IEEE 802.1p

IEEE 802.3ab

IEEE 802.3ad

IEEE 802.1q

Electrical/Mechanical Approvals

FCC/EN55022 Class B

VCCI

C-TICK

UL

CSA

CB

CE

Ordering Information

AT-297IT

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AT-297ISX

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